

L = light

	AM		P M	L	Total
16	—		12	9	21 21
17	11		6	3	41 20
18	16		R	2	59 18
19	5		1/2 R 3	0	67 8
20	5		" 0	1	73 6
21	2		" 0	0	75 2
22	1		" 1	1	78 3
23	7		" 0	1	86 8
24	11		R 0	2	99 13
25	1		R 0	0	100 1
26	8		R 0	0	108 8
27	0		1/2 R 4	1	113 5
28	3		R 0	0	116 3
29	4		R 0	0	120 4
30	2		R 0	0	122 2
31	3	+ 3	1	3	132 10
VIII 1	1		0	2	135 3
2	0		15	6	156 21
3	11		2	8	177 21
Add 1 addit. sp. Bolivar					178 —
4	11		R 0	0	189 11
5	8		1	4	202 13
6	4		0	1	207 5
7	2		0	0	209 2

8	2	0	2	213	4
9	1	0	1	215	2
10	2	0	0	217	2
11	2	0	1	220	3
12	3	0	2	225	5
13	5	0			

Kingston, Jamaica VII. 4. 1920
night.

Symph. jamaicensis very
common in short dry grass
on bare roadside gutters,
often a number clustered
together. Not particularly
active and flying rarely.

Corydalis 1 under stone
in short grass open.

Decaethus 20¹ / j H in
weedy areas in open,
moderate numbers.

Conoc. cinereus several
seen.

Siguanua Plain,
Kingston, Jamaica VII. 5
Dry plain, mimosa
covered with grasses
& low plants.

Myctil laevig 1 R + H in
cracks of dead mimosa
stump.

Corydalis large number
in debris under large
pieces of abandoned
termites nest on ground
Schistocerca 1 R in undergrowth

Neocoonoc guttatus 2 R
rich grass in dry
stream bed.

Hapithus n sp few in
grassy undergrowth
esp about plant &
vine clusters

Cydoptilum rupestris
numerous same.

Blaphyrops? 1 B + H
same

Musonia? 1 ♀ 1 ♂ H same

● Ferry River near
Kingston, Jamaica. VII. 5

Neoblattella diffracta 1R
short grass under dead
cocoanut palm fronds in
open spot.

Blattella discoid 17 1/2 R
all there same.

about 10

Siganea Plum,
Kingston, Jamaica VII. 5

Mangrove Swamp
Cariblatta in leaf
letter, mod mos (1R)
Crochirus 17R beaten
from reeds near
mangroves

● Dolichopus

Stony Hill June VII.5
An. Thurston 90 layer.
Plectoptera 1; beatus from
weedy tropic foliage
Crypt. all H. same
Walkeingstedt 1; H. same

about 5

~~Constant Spring June VII.5~~
~~Spinegrotes~~ feed on
~~pebbly bar~~ in dry
~~stream bed~~
about 10

$$56 + 187 = 243$$

France

● ~~Paris~~ Field, Cristobal, Pan.
VII. 8. 7 Heavy jungle on low
wet ground. Enormous
variety of palms vines
tunga grasses.

~~Modiola paterna~~ common
in litter on bare moist
ground under palms
but also seen through
veg at night.

~~Epilaurops azteca~~ a
few seen.

~~Reata~~ marked like
~~Sucroles~~ same. This
sp jumps actively like
a cricket in the litter
& is a poor adult.

~~Isle~~ ~~repa~~ mod
nos seen.

~~Stenaris~~ seen in
vine swamps

● ~~Spania~~ very few
seen, 3 at night
~~Cryptotilma~~ 1 seen
at night

Muscia just same
stink genus / only same
Vidua 17 same & 18th
in many release see
high ground.

Capitata bicolor 1 at
night: a Melospiza I
looked so like a beetle
sitting on top of a leaf
that it was taken for the
juv 100% same

Phylloscopus ma-
gnus ma- ^{mann.} montanus
procerus ma- procerus
but no well ma- procerus
the ma- procerus.

Mniotilta ma- ma- ma-
all on the same ma-
ma- ma- ma-
in ma- ma- ma-
or ma- ma- ma-
ma- ma- ma-
ma- ma- ma-
ma- ma- ma-
ma- ma- ma-

● Orphid common in saw
grass

Conoc salta same

Phugis small decid
same they fly further
than the cone, but in
other ways are quite
similar in action

Phugis large same but
rare

Ambletyridia very scarce
near edge of jungle
many little greenish juv
beaten from leaves &
foliage.

Phroggylus juv mod
common on ground

Ruphyllodes 10 punct. not
scarce on camellia lily
leaves in heavy

Trop under of hill
large striped pale

● Acanthia decid in
grasses partic near
small plant clusters

~~Cuck on short wing~~
~~mod mov in grasses~~

~~Littigid 1 only same~~

~~Amurogo mutic widely~~
~~dist, heard at consid~~
~~distances giving their~~
~~sur-prisingly better~~

~~Euloptirid just in~~
~~leaf litter, bare ground~~
~~under palms 1 ad ♂~~

~~Concorobus 3 seen &~~
~~Table 2 in large leaf~~
~~shoots in heavy jungle~~

~~1 in heavy fields #5~~

~~High - eating and~~
~~making no effort to~~
~~escape. 10th strid, a~~
~~weak sound, as soon~~
~~as taken.~~

~~Schistocerca 1 ♀ just~~
~~moulted on leaves~~
~~at night.~~

~~was Microcentrum~~

~~1 ♀ same~~

~~Dymetoxyl 1 ♀ same~~

Tropidacris 47 perched
in bushes in mud area
made no effort to escape &
are very sluggish in their movements
near ground to ground
179 on stem of reed
in lofty thicket of
muds growing 15 ft high
amongst palms.

$$151 + 243 = 394$$

8 other

Nature C. 2 Jan. VII. 48

Phor. aporus common
under decaying bark
of various dead trees

Phor. phoyas 1 ad 39 same

Panchia same

minute acanthid 17 1/2

worm, few others seen,
all under bark ^{Quercus} ~~amylacea~~

Ceratophora mud

not same. The most
active, driven dist, running
about hurriedly

Acrid near *pinus* on

large *leaves* trees

on *bark* or *trunk*

canal. *Free*.

Acrid *gall*. *See* *lucy*

leathery & large leaved
small tree upstems w
a long slender pale
yellow tree with a thick
bit hard. 2 ad. 2 juv.

Comprodes 19 under
bark.

Echinopsalis 2j same
(12 cubinas belong w Paris Fla
Hirst Old Panam 73 + 394 = 467

8 + 10 = 18 10 others

Cartagena, Bolivar, Col.
VII. 9.

Coconut palm fringed
beach w sea grape &
wide areas of distichlis
and other salt grasses

Aythya mod nos,
juv the more common
Syllia juv 10 HJR
Conocephalus very
rare all H

30 + 467 = 497

18 + 5 = 23 5 others

● Same VII-10 Low bush-
mumosa predominating
but a number of other
broad leaved tree sprouts,
undergrowth weedy, no
grass.

Anaulacomera frequent
in heavy foliage partic-
in high bushes.

Sittaenurioid 10th H 17 M
in low undergrowth, beaten
Chaetessa all on slender
trunks of feathery leaved
mumosa, not scarce,
very active but easily
taken if approached great
caution and aimed
directly from above. 4th
Bracon crested gryllus in
weedy open spots all
th.

● Small juv gryllus same
Abraxis 2th in bushy
areas on bushes.

Cyphopterus 1th in open
in scrub

Parocanthus annulatus

Haplithoid 1jH beaten from bushes

Scudderia 1jR

Drosophilid 17R juvs. occurred through low bushes - other juvs. perched on top of bush
Tactista 1R 1H very scarce in bare spots of scrub.

Pseudophyllid is occurred in low bushes. One minor was found from a tree. A large pear-shaped wasp nest (small yellow banded wasps) hung near it on a minute spray were three juveniles resting - there clearly sought protection from the heat of the wasps but when approached tumbled to the ground without injury
pro Viadana? a juv. in bushy bushes

● ~~Cryptop~~ ~~pro~~ beatus from bushes

~~Pipiplex~~ common about edge of ~~pool~~, stagnant.

$$497 + 100 = 597$$

38 others

$$23 + 38 = 61$$

Puerto Colombia, Atlantico
VII. 11. Dry hill, ground
partly bare, covered w.
a thick scrub largely
acacia, much cactus
aloes etc.

~~Pseudophyllid 2 sp. in
large nos resting at
bases of aloes leaves,
head up. Only 2 ados (H)
found after much
search. When in open
clumps and how in
their movements.~~

● ~~Exophlella~~ ^{widely distr.} few in
a cut undergrowth
Myctibora as Pseudophyllid
accus. All H

Diedronotus 1H in
vines near vines &
scrub growth.

Tactus web. distr
and not scarce on
bare ground in open.

Alcaeus 1H in vines
in open.

Proscopid 10H in low
green plants near beach

$$597 + 65 = 662$$

VII.12 x 8 others 61+8=69

Nannotettix 1H beaten
from green brush.

Viadana 1H same

Carpotoma juv in scant
green plants under
heavy hillside scrub
forest. All seen taken.

Diedronotus 1R on
dead brush

Proscopid 10H on bare
ground in opening
of scrub forest.

● Musonioid 1 ♀ 1 ♂ H
in scant undergrowth
on ground, hillside
scrub forest.

Blaberus 1 H under
limestone boulder same

Naumotettix 1 ♂ R

Mantoida few on
trunks of small
trees composing hillside
scrub forest; one
acacia however had
4 adults. 1 ♂ on it -
usually taken by
apppr of finger from
directly above but
some escape by darting
about trunk and
then flying to an ad-
jacent tree trunk. All
keep their antennae in
constant rapid motion

● Mantid green few
rare in heavy foliage
Pseudophyll found in
leaves of broad leaf

Cryptoptilum 2nd H beater
from edge of mixed
scrub forest.

shrubs as well as
in axes, generally
distributed

Seyleria 1 H in open
area of scrub among
twigs & scarier plants.
only one seen.

$$662 \pm 55 = 717$$

about 25 insects

P.M.

$$69 + 25 = 94$$

Cryptoptilum 1st R 1st H in
dead leaves under bush,
summit of plateau.

Cryptoptilum 1st R 1st H

Silvius 2nd H on trunk
of large smooth trees
near summit of plateau
edge.

Musci R ~~662~~ $717 \pm 25 = 742$

about 15 insects

$$74 + 15 = 89$$

$$\begin{array}{r} 4363 \\ 742 \\ \hline 3621 \end{array}$$

● Bolivar Hacienda, VII.15
P.M.

Moconoc 1♂ 1♀ H common
singing in pasture grass
at night but very wary
zu-zu-zu-zu-

Paroecanthus 2♂ H in
vine and on leaves of
low plants, number
of others singing high
up in mangos & other
trees.

Epilampra 1♂ H sh w
in grass of pasture at
night.

Micropyllus 1♀ H same
location.

Phyllos 1♂ R same.

Protopid 1♂ R same
ventr surf of vertex
deep lake.

Amantoc common.

● in weedy plants of
pasture

Blaberus 2 under
bark of dead log

on arid hillside.

~~Cyclopt 1H~~ beating from
ground sipping on arid
hillside

Amblycorypha 1jH same

Tactusa several same

Arphulilla mod common
in pasture

Alcanus several in
pasture.

Saudd parousae 20jH
same all seen later

Choroneura 1H same

one only by beating

Orthophus jws mod seen

$$742 \pm 110 = 852$$

insects 65

$$109 + 65 = 174.$$

Trail to Cinnamonati.

VII.16 all these 1R

Musonia 10^R in
forest undergr. ^{3000ft}

Aspilota a few same
10^R 17 3000 & 4000 ft

● Diderophus 1817 3500 to
4000 ft. <sup>Emys
virianus</sup>

Near Campylacusta 1j 3500
ft in forest ground vegd
Rippterys marked
3000-4000 ft. large spots
on trail along forest.
usual, very active &
mod quick in

Rip alter common on
trail 3800 to 1

Proscopid 17R as
amphiacusta

$$852 \pm 40 = 872$$

20.1 Hacienda Cuicumat

VII. 16. 1920 4500 ft.

Under bark of wet log
overgrown w small epiphytes
in dense forest.

1 Small Fabia near changin
very few under loose wet
bark & mosses all H

2 Forficula spongia common
small, juvs more numerous
than ads. all H

3 Sparatta mod. nos under
bark where it fitted very
tightly - many more
j than ads and those
pale yellowish, the smallest
have ciliate forceps (ok) all H

4 wingless juv? Epilucyrtids?
The same all H. Panchlora

5 Almost wingless grylled
topbeater from low
undergr of heavy
forest 1 ft H same in
night with flash

- 6 Pseudonipteryx 1 ♂ H
 in spider web in house
- 7 Phaet. m. Cycloptilum 1 ♀ R
 beaten in heavy forest
 undergr. 1 ♂ H on tree trunk
 in heavy forest w/ flash
- 8 Epilampra forest sp 5 H
 hunting at night on top
 of leaves of plants near
 ground in heavy wet
 forest, with flash
- 9 Xestob. caribbea 1 H same
- 10 Ditropes occurs in
 grasses of coffee plantat.
- 11 Arpudella same
- 12 Conocle forest green
 common in low weeds
 in open
- 13 Small pale leg Acupha
 on bare wet bank in
 heavy H with flash
- 14 Small stripe leg Acupha
 1 ♂ 1 ♀ in large deep
 hole in granitic gravel bank
 1 ♀ on bank, in heavy

Acridothera maculata

- forest all H w flash
15 Large acridothera on
gravel baulks along
trail in heavy forest
locally occasional 4H
night w flash + R
16 Chlorisoceryza 1M at light
at night
17 Small weavers blotted 1M
light.
18 Katydid 1M at light; jH
in undergr on edge of
forest.
19 Anaxipha 1R 3H beaten from
low plants & grasses on edge
of forest
 $872 + 107 = 999$
others 164 $174 + 164 = 338$
20 Conocorypha a very 1H
rapid zu-zu-zu-zu
very shy in undergr
of coffee plantation
21 Melospiza 1H in
spider web of house

20.2 *Haricuda cucurbiti*
VII.17.

²²*Guaulacomera* \rightarrow 10th R
light at night VII.16. 19th H
beaten from forest undergrowth.

²³*Decantherus* 19th R light
at night.

²⁴*Chorisocera* near *parvula*
drowned in basin near
house 10th H

²⁵*Chorisocera* broad 19th H
under minute bit of
bark on smooth trunk
of lofty forest tree.

²⁶*Neoblatta carolinensis* all
H 1 on screen of house,
others from epiphytic
water holding plants
of small size.

²⁷*Cryptophila* n. sp. 10th 19th
H 1 in epiphytic water
holding plant of
small size, 1 in
moss of tree trunk,
both near forest

- ²⁸ Anaxipha sp 2, 1 ♀ H
beating from low
under yr of heavy forest
- ²⁹ Stegid 30 ♂ H 1 ♀ R very
scarce in damp sand
of forest trail not far
from stream
- ³⁰ Acroporob 1 ♂ H in forest
letter, under soggy
leaves
- ³¹ Amular comp sa 1 ♂ H in
water holding small
epiphyte in heavy forest
Amcloniog 1 ♂ H on
trunk of tree in heavy
forest near epiphytes.
- ³² Stenone mosif 1 ♂ H
on flowers of forest
plant.
- ³³ near Dux 1 fragment ♀.
swarming night. in forest
PM 10 64 j all H in decaying
banana shoots lying on
ground in coffee plantation
- ³⁴ great Acauthid 1 ♀ H same

● place in dead leaves
and litter.

Gryllus - wings mod nos
in wet heavy leaf litter
there

³⁵ Psalis 1 ♀ R juvs? H same
scarce & in decaying banana
shoots

³⁶ Anaplecta banded wings 1 ♀
flew rapidly out of leaf
litter there.

³⁷ Neocnosc near juttata
1 ♀ R in grass & weeds
open area in coffee
plantation. Eucanthopt.

³⁸ Small wings Amphicnemis
1 ♀ H. same as great Cicantid
litigids 2 R on trail in
grassy & banana areas
night; attr to light on
march.

³⁹ Acout. inodes 1 ♂ H attr to C

● Anaulacomura 1 ♂ H
attr to light in dense
forest near stream.

40 Jodacrid 1R

Chorisoneura 1R damaged
1H.

On ferns and tangles
of very luxuriant
undergrowth

41 Acacanthid 1♀ H short
oocyte leg, on upper
surface of broad leaf
small dark Chorisoneura
same.

Epilamproidea all M + H
on upper surfaces of
low wet ferns and
broad leaves, all
seen taken as East with
Microgaster strid on
broad leaf plant in
heavy tangle.

Cryptop large 1R att
to light

Acanthop 1♀ H upper
of broad leaf in
dense tangle, the young
all adhering to the

• 179 case by their
caudal appendages
were projecting in every
direction and jolly
moving their limbs -
The ♀ was carrying her
abdomen somewhat
elevated apparently
to protect these young
and presented a
most singular appear.

Prob. 179 in vine
and leaf tangle.

Cyrtorhiza 17 H attr
to light there.

$$999 + 166 = 1065$$

about 150 other insects

$$338 + 150 = 488$$

20.3 Cucurbit VII. 18

42 ^{Pseudophylla} Agrobis about house H

Dux 1 about house, 1 in
epiphyte of mountain
forest 4900 ft.

Neoblatt caricaria (?) 15 H
very dark about house.

43 Neoblatt. Chorisoneurula
♂ juv. In epiphyte of
mountain forest 4900 ft
15 H.

44 Neoblattella 15 H common
in dead leaves of
Guarumo tree ranging
to forest bushes 5000-5200
ft.

Cycloptilum same at
5000 ft.

Capicimella delicatula 19
same & one at 5200 both
in dead Guarumo leaves
Acaxipha very few
in forest undergr
at 4900-5000 ft

45 Lissoblatta sp. found

undergrowth & dry
leaf clusters of *Miconia*
forest 4900 to 5200 ft.

⁴⁶ *Satiblattella* same
type as in *Guarano*
leaves as described.

47 *Paratropis* 1 ft runway
across trail in grassy
spot of coffee plantation
at 4700 ft.

⁴⁸ *Cecanthid* swept under forest
5100 ft 1 j R

Parocacthus? 17 R from
dead *Guarano* leaf
on edge of forest.

⁴⁹ ~~Splendid ground cricket~~
~~black white high legs.~~
~~in a small area~~
~~among dead leaves~~
~~very few 2 ♂ R 5000 ft~~
~~50 green stout legs~~
~~from epiphytic bromeliad~~
~~in heavy forest~~
~~5100 ft~~
Tairona pulchella

51 Platythorus 17H
on wet black soil trail
forest edge, a very
slow and clumsy ~~jump~~
no others seen. 4800 ft

52 near Musonia 10R
below edge of forest just
below coffee plantation.
flying thru hit and
was running along
trail.

53 Agracid from dead
Guamno leaves, usual
in heavy forest at
5200 ft H

54 longate micropt.
Pseudophyllid 12H same

55 small black Rhipisteryx
~~just~~ ^{seen} along short
distance of trail
just below forest
where large black
Rhip. was ~~also~~ in
wood nos. 4800 ft

56 wind numbness
12 H in damp dead
leaf litter of mangy
forest 5000 ft.

57 near Taranaida mod
common in dead Guarano
leaves hanging from
forest bushes 5000-5200 ft.
 $4887 = 526$

$$1065 + 159 = 1224$$

58 21 insects + 17 insects
PM Chorisonura delineata

larger, pale wing veins 18 H
at light. Ischnoptera

59 Ceratophora picta 18 R 18 H
in spider webs on house
boards.

Anaulocamera 18 H at light

$$1224 + 4 = 1228$$

19.4 Cincinnati V11.19

60 humpback Acydium -
good sized colony on
ground almost bare with
scant grass of cleared
area on ridge 5400' All H
splendid ground cricket (49)

3H♀ in loose leaves of
forest edge & heavy forest
4400-4500

Dichroplus ^{mod} common in fern
on weeds & grasses & few
on hill summit clearing
in coarse grass 4400-5000

shio Decanthis (41) 12H under
bit of loose bark of large
tree in heavy forest.

small Cyclopt occurs
in coarse grass of hill summit
clearing & in dry grass of
few Quarumo near summit
in forest 4900-5000

Ulexora 20H with

Prosparrattas under

~~the~~ bark of dead trees
where the underside

4800

● was moist & 17 H at summit 5000 under ~~the~~ decayed piece of wood in middle of clearing. These moths were easily taken by approaching the bottle to them cautiously.

61 Euborelia 17 M under bark of dead log.

62 Mouchea 17 R climbing up smooth trunk of large tree in heavy forest where bromeliads & lilies were about.

Proclatella dark sp 1 H (43) from dry Marum leaf Chorismura 17 R beating heavy forest foliage.

63 Amblytropidia very few scattered thru grasses of open cleared areas.

64 Pimpl. brunn. 17 H in house

$$1228 + 92 = 1320$$

$$526 + 25 \text{ other} = 551$$

P.M. To Coffee Mill.

65 Dryllus assimilis juv
juv in grasses of coffee plant

66 Anaxipha blackish 17H
on trail in coffee plantation 4000 ft.

Neonoecephalus large sp
common in heavy grass
near stream 3900 ft.

67 Dumetia juv H grasses &
vines near stream 3900 ft.

Anaulacomera 17H in
vine tangle 3900 ft.

Rhypteryx marginatus sp
along trail usual 4000
to 5400 ft.

$$1320 + 30 = 1350$$

$$551 + 10 \text{ others} = 561$$

$$+ 20 = 1370$$

20

19.5.

● Cuncumali VII. 20 up to 1st clearing on Lorenzo Trail

68 Anaplecta pale heavy band

2 ♂ R under dead litter under dead Quaramo leaves on ground 5100 ft.

69 "Imnophryx" 1 ♂ R ^{5000 ft} in dead quaramo leaf; 2 ♀ j H under leaf litter on ground in forest 5500 ft.

70 Anaxipha dark blue pale. Under dead quaramo leaves on ground in heavy forest 5000 ft. 3 ♂ 2 ♀ R

71 Tauprobolatta 1 ♀ H under leaf litter on ground in forest 5500.

Colapterobolatta compressa juv ad., juv mod mos. in epiphytic large bromeliads at 5500 ft.

Capuciniella delicatula 1 ♂ H

same

● (54) 1 ♀ R out of epiphytic bromeliad 4900 ft.

(50) 1♂H 5200ft, 1♀R 4900ft

from dead guano
leaves hanging from
forest shrubbery.

(56) common on trail
4900 to 5500ft. parties in
the heavy brush forest
above 5000 - where the
large gyllid had
disappeared and the
small (38) was usual.

The males wear tegmina
looks almost like a
pale icarid parasite
projecting from beneath
the pronotum.

Epilaurops under dead
bark of tree on edge
of wet ravine 4800ft.

Platythrips 1♂H in
wet leaves of dark
trail in forest at
5000ft.

$$1370 + 169 = 1439$$

24 others

P.M.

1 very small microbiid? under
bark of stump in heavy forest
4300 ft.

Tatuidia 1♂ same

$$1439 + 12 = 1451$$

17 others

72 Nanotettix 1♂ R from
dead guarumo leaf
hanging to low saplings
in heavy forest? 5000 ft.
PM

73 Crotylus near 1♀ ^{resting} on
top of leaf of plant near
ground in heavy forest.
Protoparce aduoptora 1♂ H same
near Procharis 1 R same.

$$1451 + 12 = 1463$$

$$5617 + 10 \text{ others } 571 + 17 = 588$$

20

~~27~~ 6 Cincinnati Trail
To Vista Nueva Hacienda
VII. 21.

74 Immuopteryx 2 ♀ H 1 ♀ R under
water soaked dead leaves
on deep forest trail. Much
work guided to reveal
anything else except
Xestobol caribbari 1 H same
beauty cricket mod nos n
at about 4900 ft

From Huauco leaves
dead in heavy forest
at 4800 ft.

Cycloptilum large sp
mod nos

Pseudophyllid 2 ♀ R 1 ♀ H same
" (54) 1 ♂ 1 ♀ H in same leaf
walking stick 1 ♂ 2 ♀ R same
Acanthid Eudacous
agassiid

75 Chorisoneura 1 ♀ H
same from top of
sapling 20 ft from ground
large pale sp

$$1463 + 126 = 1589$$

$$588 + 22 \text{ others} = 610$$

20

✓
19.7 Cincinnati to 1st
clearing on San Lorenzo 6000 ft
V/11.22

76 Paroblatta cylindrica 102 jR
23R in "water plants" epiphytic
bromeliads at 6000 ft.
Colaptes complans much
more numerous, partic-
ular in all mistlewood and
Capuciniella a few same.
some Neoblattella
Other species as before
in dead quercus leaves
at 5200 ft. There also
is a Decantherid, Pseudophy-
llopteryx in wet
dead leaves on forest
ridge at 6000 ft. Some
Tamias 2# very few.
same & 1 at Cincinnati
4500 ft.

$$1589 + 136 = 1725$$

$$610 + 39 \text{ others} = 649$$

77 Anaxipha darwini large
18 ft in grasses near trail on
edge of forest at 4200 ft

● Chonsonura paleacea
1H in dead guano leaf
hanging near ground in
forest at 4200 ft.

P.M.

78 Pachloria columbica 19 ft
at light

Pseudophyllid 10 ft same
Acacanthus just eating
holes in leaves of

tree, resting on
under side of leaves.
A very active species
but not timid and
can be approached with
ease. The song is a
rich and not very
high pitched trill.

20.8 Cuculiat on
Santa Marta trail to
vicio of S. Marta. VII. 23
Coccyzus 2? brought
in by natives.

Sparatta under closely
adhering wet bark on
log in forest 4400 ft.

⁷⁹ Sturnotocerca 1 ♂ H in
open, very active, flying
a considerable distance.

⁸⁰ Staurastides in low
plants vines and grasses
on forest margin - few
in numbers 4200-4000 ft.

A very active species, the
males jumping long
distances. As they have
the habit of squatting
as the net passes over
and then jumping
instantly, this is
extremely difficult
to collect.

81 Allotellix H on trail

covered with wet
leaves in heavy forest
4300 ft.

82 Scaud paronae 1 ♀ H.
4100 ft. In grasses on edge
of forest.

83 Eppia 1 ♀ H on dead
leaves under vines &
plants on edge of
forest. This insect flew
a few feet, resting on
the dead leaves where
it was cautiously appr.
and easily seized by
the tips of the wings

84 near Elacochlora 2 ♂
beaten from weeds &
vines on edge of forest
at 4000 ft.

85 Pseudophasma supplam?
10 mm by R. L. M. by H. Flew
up onto underside of
leaf of wild banana?
on edge of forest
from low grasses and
plants. This example

flew quite vigorously
in flight looking
much like a member
of the genus Colacis or
butterflies. On the under
of the leaf it was standing
well up on its legs in
an alert position then
taken by a rapid sweep
of the net.

$$1725 + 59 = 1784$$

$$649 + 93 \text{ others} = 742$$

P. Montaciena

Eppia 18 H 4100 ft. in clump
of daisy (the kind that has
the seeds which stick to one)
on border of quebrada, strided
a rather weak zee-zee-zee
not high pitched and audible
at not more than 30 feet -
it sang infrequently
and was in consequence
very difficult to locate.
at night

86

Ichnoptera 18 on pappus
in coffee; 4100 ft at night.
deciduously rapid.

Conophaleus mod & common
in sugar cane 4000 ft

Epilampra on surface
of large leaved bush
in stream bank. 18

Dark Anaxipha singing
on low bush near stream
in coffee plantation.

large Anaxipha 17 as Eppia
this is probably ♀ of TT, 18 Anaxipha

$$1784 + 9 = 1793$$

20.9 Minca, Surina
de Sta Marta VII.24.1920

Heavily forested ravine
2500 ft.

87 Pseudophyllodromia elegans
1.1j H on leaves of low plants
in heavy forest particularly
platanillo. very alert and
active.

88 Moblattella } 18/19 H
in forest undergrowth

Small dark Anaxipha
same, beaten from

89 or large straw Anaxipha
19 beaten from vines

in heavily forested ravine
90 Eumoptera surinamensis?

Striped juv occur in
forest undergrowth

Small Cryptopterus 19 H
same.

Small roach 1j under
bark of decaying log
in heavily forested
ravine.

91

Proscopid 17H in
short plants along trail
in heavily forested ravine
150H same at 2800ft. Very
awkward in its movements

92 Ectocorus (gryllus like)

20H 17R juv locally in
dried leaves among
low plants of heavy
forest undergrowth. A
powerful but not rapid
 jumper, much like but
not as quick as (5)

Parocanthus as Bolivar 16H
beaten from vines in heavy
forest ravine. 17R

93 Anaxipha latiollis? dark
sides 17R same.

94 Hematosaphrus 29 juv
very juv where much
dry dead leaves were
scattered beneath
small green plants.
Jumped powerfully but
were sluggish.

Musonoid in grasses
& vines along trail on
border of bushy undergr
at 2800 ft. 10 H 1 j H.

Manuotellix beaten from
undergr of heavy forest
at 2500 ft.

Didroplus few in grasses
in open down to 3800 ft.

Amblytropidia same.

Pipiteryx ocellus near
stream in heavy forest
at 2500 ft.

Elaeochlora juos in
vines & low green plants
in forest at 2500 ft.

Acanthid white Jan 2 j
beaten from undergr of
heavy forest 2500

95 Tropinotus rosulatus
17 H, few from trail in
vine tangle at 2800 ft.

96 Musonoid green
whiglers 7 1 H beaten
from undergr of heavy

● forest at 2500, V.
97 Heteroneura 1j? ♂ R
2j ♀ H same.

Paratropus pale juv
R same. 106 others

20.10? $1793 + 56 = 1849$

~~PM~~ Cuciniata w light

Choroneura 1 on top of
leaf in forest undergr.

Problatta 1 juv same, 1 ♀
climbing about dead
stump in open near
forest, when approach
attempted to escape down
the hole made by a
larval beetle.

98 ~~the~~ pale Orocharis
1 ♀ on underside of
leaf of small curly
leaf shrub in heavy
forest

99 Microcentrum 1 ♀

attn to light.

~~1793 ±~~

$1849 \pm 20 = 1869$

26.11

VII.25

~~Acro~~ Problatta 1♂ raised
 from juv. 20.5
"Immopteryx" 1 juv same
Proscopid 1j in coarse
 grasses of bare hills
 betw Mica & La Tigra
 at 1800 N. 1♂ 3200 N
 in trail in open. Highest
 we have seen this sp.
 They are extremely
 helpless, jumping in
 a most clumsy
 fashion and for very
 brief distances and
 assuming various
 grotesquely twig like
 postures.

Homalosaparus 1♂ as 26.10
five Decantheid 1♂ same
musonoid in low
 plants on border
 of forest at 2800 N.

$$1869 + 13 = 1882$$

$$742 + 66 \text{ others } 808$$

20.12 Hacienda Victoria

VII. 26

Open steep hillside near forest. Under decaying litter of dead weeds & banana stalks. 4100 ft.

Ischnoptera juv

Tauprob mod. nos.

Pseudophasma 10[♂] 19 same

100 Epilampra near azteca 19 same

Xestob caribbea 10[♂] same

Pachelora colombica ? 19

The juvs "Pycnosceloides aporus" are possibly young of this - Have kept 5 juv to verify alive.

101 near Amisia 19 in vines & plants on heavy forest border.

Ectocous (92) 10[♂] 19

Other wingless Ectoc 19

1882 = 23 1905

²⁰
Cuzco Bocas (Agua Dulce) just above
VII-26 3500 ft.

102 Nyctibora obscura is
few in dead guaruma
leaves hanging to forest
scrubbery near open
terrace of ad of this sp.
found under banana
litter at Hacienda Victoria
Tauprob albip few under
litter among bananas
in open.

Ripist in low veget.
in edge of forest.

Proscopid. 3/4 10 R same
1 ad # in foliage at edge
of forest at 3800 ft.

Conocephalus very few
as conocephalus

Ectop 18 1/2 as Tauprob.

103 Breat Pseudophyllid
came to light in tent
at night - brought
to me by native

● Saudd parvula in weedy veget in clearing juv.

Musonoid juv same.

Schistocerca 18⁺ same.

Staurorhynchus occurs in vines & plants bordering forest.

Didroplus juv same & ~~no~~ occurs in weedy open

104 Aleucon juv juv ~~succ~~ in weedy open.

Tropinotus very juv juv as Staurorhynchus.

Anaulacomera the two sp there, v juv in low bushes & tangle of forest edge.

105 Euphura aurantia

17 among weeds in tamarisks, juvs occur in weeds & grasses on border of forest.

106 Dixippus phasianus

1R from piang on edge of forest.

Plain Pseudophyllid
18 Circummati VII.26

native collector

107 3-striped Pseudophyllid

29.1.7 Ja Tigre

native collector

108 Colpophylla juv on edge of
forest ~~thatched~~ stilts & leaves juv

1905 \pm 150 = 2055

808 \pm 138 others = 946

102 Panchlora cubensis in
a large pile of wood. Stems
deposited on the trail of
the heavy forest at
Uruca by ants were found
a consid number of a
small broad reddish
brown roach. Carried
back alive on VII.25 we
were amazed to find
one adult on VII.26
a typical pale green
Panchlora. Thus
recognizing the young
of this genus for the first
time.

20.13 Summit of San
Lorenzo VII. 25 8500 ft.

Bald of grasses and low
dry stiff shrubs w much
ground water plants.

109 near Ectocarpus in
dry leaves near base
of water plant; holding
water however.

Colaptes occur. juvs
about as num. as ads.
same.

110 Phasmod v scarce
same.

111 Rhypteryx numerous
in grassy areas, juvs
much more num than
ads.

Dicropterus mod num
same

near Umbro common
then grasses & brush

Blattella germanica
1 at camp

Umbrellula 1 under
litter in grasses

112 moblathella caribaei

1? in water plants

Leptigid in grasses &
bald

$$2055 + 106 = 2161$$

$$946 + 65 \text{ others} = 1011$$

$$(1011 + 105 \text{ moths} = 1116)$$

20.14

113 sh w moblathellid

2 in grasses under light
in morning while had
been all night?

20.14 Summit San Francisco

VII. 26. 28

114 Moxabea ^{intricata sp.} 10^R beating
in low vegetation

115 Microcentrum 10^R R
in plants near camp.
probably attr to light
during the previous night

116 Leptigid sh w 1^R R
in mossy & grass
near of low vegetation

$$2055 + 51 = 2106$$

$$1116 + 94 \text{ others} = 1210$$

20.15 upper timber Same
 Lorenzo 7500-7900 ft. VII.29

¹¹⁷ Pilumatoolpha ads & juv
 under dry curling bark
 on dead saplings in
 partially cleared area ^{7500 ft.}
 near Cnaplecta ads & occul.
 juv very few same.

heavy short prolegs Dumet
 2j same. 7500 ft.

¹¹⁸ Melastora transparent
 orange brown & brown 1st
 stage, 1st from dry dead
 leaves from base of water
 plant growing on tree or
 bamboo and stunted
 tree zone. 7500 & 7700 ft
 near Tatiblattella

in dry leaves and
 of water plants in
 same zone 7600-7900 ft
 show sp. (113) occul.
 under moss on tree

trunks and under
bark.

True Neoblattella carribbensi
occurs in water plants
of darkest pts of bamboo
& stunted tree forest. 7500 ft.

119 Neobolophora scarce
under bark on ^{dead} saplings
^{partic} where this was moist,
also or rare under moss
on tree trunks in this
zone. 7500 ft.

Caprimella 1 j in water
plant. 7700 ft.

Problatta 1 ♂ in cluster
of dead leaves, 1 j ♀ ⁷⁸⁰⁰ ft.
feeding undergrowth.

120 Spined Pseudophyllid
1 ♂ in letter between dead
leaves at base of water
plant on tree and
the moss & lichens
covered trunk in
dark bamboo & stunted
tree zone. 7700 ft.

● Dichroplus v. few in
grasses & heavy tangle
of partially cleared area
at 7500 ft

Mimobius few in dead
wet leaves on trail.
wingless amphipoda
mod nos same to edge
of forest. 7500-7900 ft

The Pilmatosilphae
were very active when
disturbed. The ads
when seized emitted
a pungent and
disagreeable white
fluid which was
a small matter like
that of Euryc. niger.
The imdcs of this
sp were found under
bark on limbs on
the ground or as
high as 8 ft fr
the ground

$$2106 + 116 = 2222$$

$$1210 + 70 \text{ others} = 1280$$

Panaphonus
capillus 1R same 6800 ft

20.16 San Lorenzo to
Cucumate VII. 30.

Tafalisca 10¹ 1/2 together
under loose dead dry
bark of sapling 7900 ft.
mod caribbeis mod
nos in dead leaves
hauling beneath water
plants 7900 to 6600 ft.

121 bicolor Corydalis
12 many juv under
dry bark of dead
sapling in open 7000 ft
Ripit San Lorenzo Sp.
to 7600 ft but only in open
areas. ♂ on bald just
above forest edge at 8000
Ripit 1 of 2 other sps.

Cucumate VII. 28 E. Flye
mailed

Palmatosilpha as before
down to 7000 ft.

Melastoma under bark
at 6500 ft 1 ♀, 7000 ft 1 ♂,
7200 ft 1 ♂ R the female
was wet dragging log

● Psidium 1; in rotting
wet log at 6500 ft.

Caprimella under water
plants in dead leaves of
sawes and one large
colony of juvs under
dry bark of dead sapling
on margin of trail in forest

Rare Lethigids 1 at 7000 ft
smaller 1 in sphagnum
on muddy trail at 6500 ft

Mantochla? 2; beaten
from bushes in open
at 7200 ft

122 Hylotrupes

Salicetia 1 R same

Problattia ⁵⁴⁰⁰⁻⁵⁵⁰⁰ up to 6800 ft
₆₀₀₀ under bark and in dead
water plant leaves hanging
below.

~~Scorop~~ Colaptes from
top down to same

shw Pseudophyllid

● in dead quarrum
leaves in heavy forest
at 6100 ft.

Edicous from dead
guarumo leaf in heavy
forest on ground at
5100 ft.

Diner near 17 pauce, 10"
at 6000 ft.

Amphicnistis small
in leaf litter of heavy
forest 7800 to 6800 ft.,
1 large R 5100 ft.

Imnoplex 17 R as
Edicous at 6100 ft.

Agracids in dead
guarumo leaves in
heavy forest at 6100 ft.

Litterine rosifumus 17 ft.

In top of heavy creased
bush in clearing at 6800

juv. and ads. ~~left~~

Coccinellus brought
in by natives at
Ancunati VII. 30

2 small Phasmoda
seen Toranzo 8500
on light tree at night

● shortly after starting
light on VII. 29.

Phaenocarpa 1 ♀
William Flye (mammal)
Conocéphalus as Conocéphalus
in store VII. 29

$$2222 + 171 = 2393$$

$$1217 + 430 \text{ others} = 1260$$

20.17 Hacienda Victoria
VII. 31 Elev 4100 Under
decaying litter of dead
leaves and banana stalks
Tamprohl as 20.12

Eppia 1 ♀ H small
Musonoid 1 ♀ H small
123 Acanthops 1 ♀ H "
Ischnoptera Wall 1 ♀ H "
Dryllus libre 1 ♀ H "

● Pachylora 1 R on banana
stalk under base of one
of the dead basal leaves

Beaut gyellid 1♂ under
litter.

Stenorkestes juv in
grasses on forest edge
Scaevola 1♂ H same
Elaeochora 1j R under
litter.

2393 + 21 + 2414

1260 + 17 others = 1277

Pachlora 1♀ H bred
adult from Mica
series of broad brown
juvs kept

20.18 Mica VII.31
2500/1?

Phasmid 1R 1H beaten
from forest undergr
Elaeochora sand
sitting up on leaves
partic in vine tangles
Small Elaeoch 1j
H. same only one seen

124 Mozzylus in
scant negit of maas
forest leaf mould
Ittigid 1 R. seating
along trail
¹²⁵ Lactista 17 H on trail
at Ta Tigreria

$$2414 + 10 = 2424$$

$$1277 + 31 \text{ others} = 1308$$

- 20.19 Vista Nive VII, 20
10.30. Carulita Carriber
126 P. australasiae 1
127 Pras of series
128 Stagnomant 17

$$2424 + 24 = 2448$$

20.19A Hacienda Bolívar

VII.31

129 short Amurocentruce

A very vigorous note -
small colony in trees
and large leaved bushes
near house.

130 Symphloe n sp 1♂

on top of leaf of same
bushes. 1♀ VIII.1 on
garden plants - with
flash at night, both.

131 Forked ceri Anasias

1♀ on top of leaf of same
bushes. with flash at
night VII.31

132 Bluberus in luggage
on porch

133 Supella supell
in great numbers in
kitchen & bathroom

134 Megilodis sigill

juv same, 0 taken.

Matella graminea

same.
Amurog muticus several heard

● 135 Tiliogonus juv
on large trunks of
smooth bark trees
scattered thru the very
arid scrub. They run
with a great rapidity
but are easily taken
if appr w great care.
When not in motion
as they then press
themselves close to
the bark appar relying
on their prot colorat.

Arphulella 1 in arid
scrub - only grasshopper
seen there.

Tendrobatta sobria
1 in pile of boards
under mesquite tree
at night w flash.

Mottled wing Pseudophyll

● Climbing about in
pineapple plants,
at night w flash, juv

2448 + 17 = 2465

20.20 Aracataca, VIII.2

136 Proscopid micromedus
occurs in grasses in field
and in vine tangles
along edge of low but
dense jungle.

Emilia few in grasses
& vines along edge of
forest as above.

Tropiotes rosulentus
very few same.

Stenorhynchus 1 same.

137 larger Pseudophyllid
1 ad 1 j in ^{leaf} leaves of
tree like guano but
is larger leaves which
shrivel more in drying
leaves hanging from
tangle of low jungle
tree =

138 plain Pseudophyll
2 same.

spotted wing Pseudophyll
occurs same

139 Limoblatta 17 #, very

juv same.

Dendrobatta sobrina

juv juv, 2 ♀ from leaf
same.

140 Abraxia occid. in
vines on edge of low
thick jungle.

141 Arphul concardi

juv in field of rank grass
Arph punctata mod
common same and on
edge of forest.

142 near Arachnis dark
as 137, in the net at
the same time was
shaken out the very
sp. is same

which rearing
up with great swiftness
gave the collector no
small shock.

Musonoid 20? 1 ♀ on
edge of low jungle
in heavy vines

Musonoid green 1 ♀
in grasses same

143 Croc saltator
common in heavy grass
of meadow. C. w. a scarce

144 Small Tettigid
beaten from bare wet
area of meadow

Nyctiora 1j as 137

145 Agracid pale 10¹²
1j as 137.

146 Mobiastella on 10¹²
on top of leaf of vine
covered vine at night
in grass.

147 Tril. rupa 10¹² same
1j on bush, same ends.
Anaplecta juv. as 146.

Dryllod sigillatus in
great numbers in
houses & parties on
porch. They come
up to our light and
carry off the small
injured ones & other insects.

● Pan. chlora annularis?
small ♂, ad light.

148 Pantonia 2 same

149 short prolegs bicolor
larwig 1 beaten from
vines & heavy shrubbery
on edge of low dense
forest - same as 20.15?

150 small Cycloptilum
- from same Taigies
large stream Anaxipha
beaten from heavy
meadow grasses.

small Anaxipha same
Ceanothos 1 & same juv
beaten from vine thicket
on edge of heavy scrub
forest.

151 Ripirix v small
sp. occur in wet and
bare spots in meadow

152 small grayish Cw Anaxip

● 1R beaten from
meadow grasses
Alumina juv; there

153 Chlorocircus? 17th
in rank grass on edge
of low dense jungle.

154 Argizala brasilensis
at light at night.

155 Paroccauthus pale
11th on top of leaf in
heavy vines on fence
at night w flash.

160 Dasyprosoma 18th
found on board in
morning being drowned
by ants.

$$2465 + 174 (A57) = 2639$$

$$1308 + 228 \text{ others} = 1536$$

20-21 Oracatoca VIII. 3

Low but dense wet bush,
vine tangles in open spots
and along borders, stands
of quinea grass in low
areas of open.

Amblytropidia mod. nos
in vines.

156 Aidemona azteca few
same.

157 Sitalces modest sp.

30 seen 2 taken same

158 Scyllia 17 R in bare
spot in dry scrub along
RR.

Abraxis common same,
exceedingly quick in its
movements

Dendronotus few in dead
leaves & sticks under
vine tangles. Easily

taken when relying
fully on its vivid
protective coloration.

Imagryllus in dead
leaves under tree in pasture

Staurorket fuine juicea
grass near vine tangles
into which they sprang
w/ great agility - as usual
the males showed the
greatest activity & wariness
of any. just before taken

Amelia occurred in vine
tangles, frequently flying
high up into the vines.

159 Vilina 1 large; 1 small; in vine tangles

161 Endromella ~~18~~ 18 ft
under dead leaves on edge
of wet heavy scrub forest.

162 Near Apoditeryx plain
~~2~~ 1 from ^{dead} leaves of
tree like guano in heavy
wet bush, as R19 yesterday

163 atavistic Lettigids
as 144 mod nos locally
litargousa 1 on gray
mottled bark tree
standing near edge
of heavy low wet forest

● Schistocerca 1H in open
heavy stand of Guinea grass
164 Dumisia 17 1/2 H in
vines of open area in
heavy low wet forest
165 Stenacris in wet
meadow of Guinea grass
166 Saddled Phylloptera
10 2 7/8 H in less heavy
vines on border of
open spot in heavy
low wet forest.

Leptanura 1 1/2 H in high
Guinea grass on edge
of forest.

167 Elacochlora 12 on
heavy vines in open spot.
PM ♂ same sp? octomaculata
same.

Acanthus from plants
on edge of forest.

● Phylis in Guinea grass
rare, etc. occurs along
stream.

168 minute Letitid &
other allies on black mud

bare spot in guinea
grass open area over
by heavy low wet forest
169 pale green pale blue wing
and segd Amnicoris? on
vine tangle forest edge
a powerful jumper but
not shy.

Amoptera surinamensis 1st
same

Ischnopt meza mod
no on veget at night
partic sugar cane.

170 Endroniella on top
of leaf of vine at night
Anapl near parishi 1 same

171 Isch morio 1 on
sugar cane at night.

172 broadplain Blakelitt
on smooth trunk of
large tree at night.

173 Cecanthid small
shill type - on ground
between rows of sugar
cane debris 2♂/♀! j, 1♀ new

Luzara minor

other juv in one colony.

Tauprob albipalpus in
sugar cane dried debris
very active at night but
by no means as rapid
in its movements as the
Blattellids.

174 Miogyllus small dark
sp. At light at night.

175 ^{Choricopura} ~~Asaphid~~ small
pale vertex at night.

Panoh 17 in tree leaves
at night, 10 at light.

176 Small Ischnoptera in
running over table in room
under light at night 10R

177 ^{Tha} Conocephalus smaller
runs a continuous zzzzz
in weeds at night!

$$2465 + 248 (R 98) = 2713$$

$$1536 + 237 \text{ others} = 1773$$

$$+ 32 = 1805$$

20-22 Tucumanca VIII-4

Heavy jungle great scattered forest trees and many lower ones with a luxuriant undergrowth of weeds plants and in some places vines, platavillo etc.

178 Emmatar 2♀ R. feeding and heavy undergrowth sitting on top of leaves just same? H. same.

179 long Musonia 2♂ H. climbing & flying about same, green ♀♀ beaten from low moist places brown & in twigs and litter.

Virena Twigs & Litter near or under vents large noisy bees in twigs & litter.

180 Ellyps minuta see bare damp spots see

trail in forest.

197 Nepytia small ance
Bautilla 16 H. active
flying about. Aroused
from low ^{on ground} muscle
plants in heavy forest
Cryptilum beaten from
same curved wing of ance
Cryptop str wing ance
and from dead leaves
knocked in bushes in forest
Tanproblatta under
damp leaves & leaf
mould in forest.
Cyrtopta maxilla
beaten from ance plants
in forest.

181 Large beant maxilla
16 R 17 H in waist high
plants in heavy spot
of forest under
small; ance ance
bark.

Euphorbia 16 H same
& beant
maxilla 2 H under
dry ance bark

Phyllopalpus 2♂ H
beaten from waist
high bushes in dense
undergrowth.

Pseudonaspid same
large j? Tissoblatta
beaten from leaves
usually of high bushes
undergr of forest.
182 Tropidacris aur
resting on trunk of
great Macondo tree
in heavy forest. When
dist it flew somewhat
shugglishly into the
top of a nearby stand
to which it clung
very manously & was
sized.

Elasochlora & mac
in low succulent
herbage in mod
open spot of leafy
forest.

Dendronotus rosulenta

occasional same.

183 Heliconiastes? very
few same and in
~~the~~ dry limbs or
twigs resting on ground
A powerful leaper
but sluggish.

184 Chromacris occurs
in mod low bushes
where it was usually
found well up or
on top of the foliage.
Very sluggish and
easy to capture, making
little effort to escape.
great Acridothera in
dry dead ^{Luzara myrsinoides} ~~leaves~~ on
ground. or many found

185 Omphura bloody 18A
swept from a mine
tunnel near a burning

clump of Mataillo
in heavy forest.
Pandora from pile
of wood pellets made
by the leaf-cutting ant

Spotted wing Pseudophyllid
18th H beaten from
under & weeds of
heavy forest.

186 smaller like great
Pseudophyllid beaten
from forest undergrowth.
Great Pseudophyllid
from dead dry Balsam
leaf hanging in
scrubbery of heavy
forest.

187 Mobilatella ⁱⁿ
beating undergrowth
of heavy forest. 1R

188 Viadana 1R? same

$$2713 + 136 (R46) = 2849$$

$$1805 + 101 \text{ others} = 1906$$

$$+ 33 = 1939$$

20-23 Tacurunga VII-5

Su 20-22 Pseudoblatella

~~Neoblattella~~ under dead
barks of great Ceiba tree
all in one colony about
foot from ground on
side of buttress, a few
¹⁸⁹ Macrophyllodromia 1 ♀

same and in same colony
190 small black twice of banded

Anaxipha 1 ♀ H in dead
leaf of Platanillo. platyptera

Neoblattella ¹⁸⁷ same -

the vidio of this genus
were mod common there

191 Neoblattella M same

192 Neoblattella M "

193 pinkish near Saranda
same very few and all
but one juv.

194 large Nyctibora 2 j

same, 1 ♀ as Pseudoblatella

Pseudophyllid (186) 3 ♂
same.

195 Pseudophasma near

euphylum. 18 H, flew
up with the characteristic
fluttering, hovering
flight from luxuriant
low plants in a nice
spot in high forest.

Homalosa parvus 18 2 ♀
in heavy undergrowth
along trail in dense
low veget of high forest,
1 in dead platamillo
leaf.

Skull wing like gyllus
1 ♀ in leaf litter mould
Tamproblatta same.

I. masonia brown same
Acacipha 18 H like 181
same as yesterday.

Phyllopalpus beaten
from undergrowth of high
forest.

Cryptoptilum from
dead platamillo
leaves.

small Anauloc 1 ♀ H beaten
from luxuriant undergrowth

● of lofty forest.

196 Compsoedes mottled 17H
from dead plataniello
leaf hanging in dense
bushy area in lofty
forest.

Cyrtotipha 1R beaten
from undergrowth in
high forest.

$$2849 + 175(R41) = 3024$$

$$1939 + 61 \text{ others} = 2000$$

20.24 Aracataca VIII.5

as 20.21 -

Amicoris as 167 - all
found in one small
area.

Sitalces same but
more widely distributed
than vine tangles

198 striped Sitalcid

● 18R same, beating.
Blattids beaten from
vine tangles ~~in~~ ~~the~~ ~~area~~ ~~as~~

small spring palms
Anaxipha large ♂ H same
broad Phyllodromid ♀ H "
spotted wing Pseudophy
found by R in a
small curled dead
leaf into which it tightly
filled, its head face
completely plugging
over. end.

Elanus on bare spots
in vine tangle area.

Rhipipteryx same, very
abundant?

Anzela 1 small juv R
in vine tangle scrub.

$$3024 + 90 = 3114 (30R)$$

$$2000 + 56 \text{ others} = 2056$$

P.M.

171 Hamzigrillus artoni

1 ♂ attr to light

200 Amurogryllus unicolor 1 same

201 Scaptieriscus vicinus 1

● 202 Mutuche? elongate
straw color 1 same.

Ichneumonid same

small Moryllus same

Anaxypha common same

Dicranoblatta 1 at night
with flash

Paracanthus a juv in
vine covered grass, usually
10 or more ft from ground.
Song a resonant chäää
repeated at short intervals

$3114 + 44$ (29 in Hdu) = 3158

$2056 + 34 = 2090$ other insects

20.25 Tucuman VIII. 6

Same region as 20.23

green Eppia juv? in short
guinea grass growing
in opening of lofty forest

203 Large Pulvis 1 ♂ H

1 ♀ R same.

● 204 2 banded dark Anaxipha

colony under loose bits
of bark on buttress roots
of Macaranda tree Platyptera

Acontiothespis 1 ♀ H. &c.
flowers of Platanillo in
very heavy undergrowth
of lofty forest.

Pseudophasma flushed
from luxuriant veget
along trails in lofty forest
2 ♂ R 1 ♂ H.

205 Neoblattella fraterna?
1 ♀ R from dead Platanillo
leaves hanging from
under bush of high forest.
Thespis 1 large j R. beating
sage along trail in
lofty forest.

206 Neocoenophalus, black
like one speculum 1 ♂ H. as 203
Pachlora in rotten spot
on rotten roots of banana
tree where typical Gueneidae
were found also.

$$3158 + 160 (76R) = \cancel{3274}$$

3318

$$2990 + 116 = 2206 \text{ others}$$

20-26 Aracataca night
of VIII-6

at light

Panochlora 5

Anacrypha 5

" pale 1 (Meteorus?)

Tettigid 1

Argizala 1

Paulinia

Leptomyia 3H on sugar cane

²⁰⁷ Paroecanthus 1, as before

Mesocentrophales 2 in
grasses near house -
very continuous & weak
insects not shy.

$$3318 + 25 (7R to) = 3343$$

$$2206 + 36 = 2242 + 14$$

$$\text{juiced moths} = 2256$$

20.27 Tucurica VIII. 7.

208 Pipipteryx small plains
great numbers on wet
sand bordering the
Tucurica river.

Ellyps juv same.

209 Tendactylus apicalis
1R same, 1H on damp
sand near guinea
grass areas along RR.

Cryptopta? juv 1 beaten
from leaves in heavy
scrub.

Tatibiatella mod
common in guaraná
dead leaves hanging
in heavy scrub.

Tessoblatta or juv
same.

Dendroblatta same
Homalopt 17 from
low plants & ferns
in high forest.

Vilenna same?

$$3343 + 150 \text{ (SIR)} = 3493$$

$$2256 + 72 = 2328 \text{ others}$$

20.28 Aracataca at light
at night VIII. 7

Letigids 2

Cyrtoripha (gray rare,
yellow common same sp.?)
13

Paulinia 1

Panchlora 1

$$3493 + 19 = 3512$$

$$2256 + 16 = 2272 \text{ others}$$

$$2328 \quad 2344$$

20.29 Tucumanica VIII. 8
High forest partic.
in heavy undergrowth
w much platanillo
on wet ground.

All species as
previously recorded
except —

210 Hypurcompsa 1st under
bark of scale barked
great tree.

211 Tabia dorsalis? 1827#
in rotting stems of
plantainello in heavy
high underbrush of
high forest growing on
damp ground. These
stems were a puzzle
but it was found
that by cutting
them into short
sections, putting
the whole into the
net and then shaking
the held end of the
stem violently with
a rotating motion
the stems would
shred out and
all their contents
fall into the net.
Small earwig for same

Microgaster ~~not~~ not

Panchlorus? to be seen
from epiphytic also
growing on trunk of
great forest tree just
as the water plants do.

Phorassura 3 after
heavy beating of the
dense forest foliage
bordering acacia.

Pseudoplasma 20¹⁷ same
small green white striped
littorinid beaten from
upper foliage of heavy
plantain & circa under

Emmastoma same

Abila very rare on
dead leaves & twigs
in deep shade of
heavy forest.

$$3512 + 158 (65A) = 3670$$

$$2344 + 97 = 2441 \text{ others}$$

20.30 Aracataca VIII. 8

In dead leaves of Balsa tree hanging from tree in yard.

Chorionocura parishi, juv numerous, 1♂/♀ a very active insect moving with extreme swiftness

Dendroblatta 1♂, a few juv^{small}

Neoblattella 1♂

Anaxipha large sp. 1♂

P.M. with moon light

212 ~~Large~~ Phlebotomus on sugar cane.

213 Caulopsis's colony on a few patches of sugar cane sprouts in one restricted area. Made little or no attempt to escape at this hour.

Ischnoptera 1♂/♀ black on sugar cane as rufa but outnumbered by that sp 25 to 1.

Crematogaster lutes singing
on ground between
rows of cane debris.
Shell back Plecaulid
1♂ in same situ.

Vilvina 1♂ on ground
vice in yard.

Sk w road occasional
but extremely active and
appar not confused by
light; in cane debris.
Aciculacovera 1 on sugar
cane.

$$3670 + 72 (11R) = 3742$$

$$2441 + 49 = 2490 \text{ others}$$

20.31 Incurvica VIII 9
as 20.29.

Paraphidnia 1jR beaten
from low undergrowth
of lops forest.

214 Cycloptilum 1♂R beaten
from undergrowth
in lower dryer
forest, soil sandy
Cryptopt 1♂Hamm and
same, 1♂H as Paraphid

$$3742 + 57(27A) = 3799$$

$$2490 + 80 = 2570 \text{ others}$$

20.32 Anacataca VIII. 9 PM

215 large Microcentrum
at night at light

2 Misonia on sugar
cane, underside of leaf
at night w. flash.

Miozyllus 3 as 215
new Roach 1. "

Anaxipha same, many
same, 13 being seen on
back of leaves at one time
Tettig. 1 same

$$3799 + 25 = 3824$$

2 Panchlora Taken 20.25
same as 204 but these
Pycnosceloides; these

Now that my genus
is a synonym, the
other Panchlora and
adult at mine
was from a very
diff appearing juv.
while I also have fr Panama

$$2570 + 21 = 2591 \text{ others}$$

20.33 Aracatáca VIII.10

216 Paralelnas 1♂ 1j H 1j R beaten
from shrubs growing in
dry sandy scrub area.

217 Neoblattella ~~small~~
from dry leaves in heavy
thickets of palmas de
vino and bambos.

Viadana as 216

Paracac 1♀ H from vine
tangle near stream

Moconoc 1♂ H in jungle
grass at night, growing
in at intervals which
were much greater than
usual for this genus ^{very}
typical wet sandy border of Rio Aracatá

Paratella 1-1/2 same H

$$3824 + 89 = 3913 (25 R)$$

$$2591 + 128 = 2719 \text{ others}$$

20.34 Succowia VIII. 11

Chlorophyllum 1 j H, on
short broad leaved
sprouts near ground
in underbrush of lofty
forest. kept alive.

218 Trichia 18 H & j's.
ad in broad leaf vine
tangle in open spot
in lofty forest - the
leaves of the vine
exude a milky
liquid when broken

219 Anaxipha pale
large 18 H same

Pseudomops 1 j H
no dark small Dolichopt
in leaf mould under
undergrowth of dwarf
& heavy forest

Alumina no mottled
as Chlorophyllum

Large Anaxipha 17 H
same

Pseudomops 1 j H as

218 kept alive

Uppia

Euclyptus juv from Guinea

grass VII-9.

$3913 + 114 (R42) = 4027$

$2719 + 108 = 2827$ others

Eublabeus? 1 j R in
room Aracataca VIII-11

The Chlorophyllum nests
with head lower than
caudal portion, in fact
nearly touching the
surface on which it is
sitting. The heavy
antennae are waved
about slowly except
when resting. At that
time they are held
closely together, extending
forward and curving
slightly downward
so that their extremities
touch the resting
surface. In this
position they appear
to be the long stem
of a leaf.

same 20.35 Aracataca
VIII. 11 at light
220 Acaxipha angusticollis?
10th H. Same sp. 18 came to
light last night.
common Acaxipha
No Argizala or Cubinia
came to light this
night. The moths were
about as usual, beetles
somewhat fewer.
Slightly cooler weather
after light showers.

$$4027 + 4 = 4031$$

$$2827 + 34 = 2861 \text{ others}$$

20.36 Incarnina VIII. 12
221 Chromatonotus in
damp leaf litter under
heavy undergr. of high
forest in which
platacillo & palo
sancto were numerous.
jw more than

ads, of the latter
about $\frac{1}{2}$ doz were seen
but only one taken, due
to the difficulty of
movement in the site
and also the exceeding
alertness and rapidity
of the sp. when flying
out of a leaf and sword
jet into other litter where
they scrambled away with
great agility.

222 straw color near Laramia
10 H from dead pendant
yellow & frayed leaf of
platanillo in same site.

Proclittellus same

Nyctibora 2 same, 1 R
resting on green leaf
in heavy undergrowth

223 Acaplecta pale small

10 R beaten from

heavy undergrowth
of high forest.

Pseudophyllis as 222

Pseudophrynodromia
18# running about top
of rich underbrush
foliage in sunny spot
of high forest.

Aph. boucardii rare
in grassy spots
Silurgousa on slender
trunk of sapling in
heavy undergrowth
of high forest?

Phaenocarpa! pale yellow
green in life. no 222.
Mesochorus in open spot
among guinea grass

$$4031 + 131 (56R) = 4162$$

$$2861 + 109 = 2970 \text{ others}$$

20.37 Aracataca VIII.13²
Attr. to light at night. 4R
Mesochorus small 4
Common Anaxipha 11
Mitioche? 1
Larger Anaxipha 1

224 Anapheta lateralis 1

Ischnoptera small dark

H. found at light in AM 14th

225 Parastagmatoptera 1

Large Blattellite 1 ♂

With hand glass all H
Eppia 1 resting on twig
in vine tangle of low
wet scrub.

Mocoros guttatus on
immediate bank of
asequia - 2 heard singing
a rapid strident ge-ze-ze-ze
louder and much more

rapid than ^{another same? steeper see-see} the others
Mocoros sp slender brown

2 juv giving a short
sharp single strid once
or twice quite unlike the
note of the usual sps
of this gen - Bolivar sp?

- Have packed the

Chlorophyllus with
them - was nearly dead
this morning.

4162 \pm 40 (R?) = 4202

2970 + 93 = 3063 others

20.38 Tucurima VIII.13

In heavy damp undergrowth of high forest.

2260 "Panama" Occultid.

17H in twilight on dead leaves, a colony of several adult ♂s and more numerous juvs found in dry leaves on damp soil in heavy forest. It was a most difficult matter to secure an adult male as this is the most rapid species I know. Even with the hand over it an inch and a half the insect can sometimes escape before the hand can be slapped sharply down. Lernaea variipes

Luzarida annuliger

227 large-shall large

Acantoid Very few
ads, few juv. partic
in the earlier instars
with white pulvinae
on the damp leaf
mould in the twilight
beneath the heavy
undergrowth of the
high forest. #

228 Large Catantoid

18H beaten from tree
shoot in undergrowth of
high forest. This
is a sp of the deep
forest - the only such
in this region. The
others are few found
in openings of the
heavy forest.

229 Patrachidea 27H

no juv, or few as 227.
but ads and is as
colony of 2Hs. Apparent
inst but a mid inst
& powerful jumper

230 Enides deffoudasi
1♂ juv beaten from leaf
shoots on ground in
twilight under heavy
underbrush of high forest
Copiphora 1♀ H same.

$$4202 + 121 = 4323 (R43)$$
$$3063 + 83 = 3146 \text{ others}$$

20.39 Aracataca VIII.13
P.M. Attr to light.

231 Small Acutiviscus
flown in to light at 10
P.M.

232 Spongiphora 1♀
hiding in dense cloth
about light in morning,
1♂ same VIII.14. Both
night's light covered
all night.

233 Myzillus pessilus
1st light at 9 P.M.

$$4323 + 40 (R4) = 4363$$

$$3146 + 29 = 3175 \text{ others}$$

20.40 Paris Field, Cristobal,
Pan. VIII.18.1920. All H
Same as VII.7. This area
is not jungle but
in reality low weed
bush, yeannu and
other small trees &
palms, & very w vines
Sprauonyx Beaten
from vines near growing
palm found under
which were dead leaves
& bitter
Aphonomorphus flavipennis
Aphonomorphus 19 same
juv near Paraphidonia
died - Caught Tucumania
R VIII.13.

Imisia ~~very few in~~
~~leafy vegetation~~
Cornops ~~occurs in~~
~~same~~

Quanta ~~few same~~
Myoprocis locally
on leaves of vines
covering bush, found

on top of leaves, jump
well but not very alert.
Habits just as *Aracataca*
"Amicrus".

Phylloscopus 2 sp. in high
coarse grasses.

Neoblattella from
dead "guarumo" and
other leaves hanging
in thickets.

Attagis on wet dark
soil in cleared area.

Ripipteryx same

Phylloscopus few in
high trees. ^{Many in}
Pachyura from low

wet brush foliage.

Anaplectes 2 juv from
dead guarumo leaf
up in coarse grasses

$4363 \pm 80 = 4443$

$3175 \pm 10 = 3185$ other

except 1 buff speckled

ladybird Sta Marta VIII. 16

20.41 Santiago de Cuba,
Cuba. VIII, 21, 1920 all H

low grassy hills with
scattered acacia, other
trees & royal palms.

In areas of three- to five
mile grass patches -

near Muñicentrum 1 ♀
The abd segments lateral
& to near the median
line dorsad are deep
purple, bordered caudad
by turquoise, terminating
ventrad in a white spot.

Moconoc brown 1 ♂ same

" hook-vertex 1 ♀ "

Pyrocampa 1 ♀ "

Conoc usularis usual "

small Sokistocera in

mod num in this grass

Arph common in short

dry grasses.

Anaxipha 1 ♀ same

Spilargus 1 ♀ in same
area

Stenogaster 17 beaten
in area of rich high grasses
Cryptophilum 1; beaten
from vines & low bushes
in dry area

Orphulella beaetipis sp
occurs in short grass
along road and in
richer meadow grasses.

Aglaopteryx diaphana 18
from under corky bark
of large tree in open.

Elleipes juv on damp
soil in short grass.

$$4443 + 28 = 4471$$

$$3185 + 17 = 3202 \text{ others.}$$

Small *Cabia* 16,
Spongiplex papilionoid 16
Sparatta 16, 19, 23,
Pandilora 16, 22, 26 (mostoo) (2) 31(2)
Almost wingless *gryllid* 16
Pseudonemopteryx 16, 17,
great *Cyloptilum* 16, 17, 18, 21,
Epilampra 16, 17, 20, 23,
Xestoblatta 16, 21, 26,
Didroplus 16, 19, 24, 26, 27, 29,
Asphondylia 16, 31,
Conocaphalus 16, 23, 26, 30,
small pale leg *Amplicia* 16
" *striper* " 16
Large *Amplicia* 16
Chorisonura 16, 17(2), 19, 22, 24,
small wingless *blattid* 16
Natydid 16
Anaxipha 16, 17, 18, 22, 23(2) 24(2)
Neococcus 16, 17(2) 19
Melastera 16, 19, 20,
Quambacoura 17(2), 18, 19, 26,
Cecanthus 17, 22,
Chorisonura broad 17 30,
Neoblattella caribbea 17, 18, 27, 29,
Cryptoptilum, small 17, 19, 24,
Tettigid 17(2) 30, 31,
Acroporoblatta 17(2) 2 young 20,
similar *conyrsa* 17(2), 20, 22,
Lithrone 17, 30,
near *Dux* 17
great *Cecanthid* 17
Dryllus-wings 17, 31,
Psalis 17, 30,
Anaplecta banded-wing 17
small wingless *Amplicia* ^{arantat} 17, 20, 29,
Acontotetraspis 17
godacrid 17
Cecanthid short wings & teg 17, 19, 21, 81
small dark *Chorisonura* 17
Cyrtoxipha 17
Dux 18, 30,
Pseudophyllid 18, 22,
Neoblattella *choris* *quint* 18, 19
" " 18
Capuciniella 18, 20, 22, 29,
Lissoblatta 18
near *Latiblattella* 18, 29,

47 *Paratroches* 18, 24,
48 *Cecanthid* 18, 24, 25,
Parocanthus 18, 24,
49 *Javiera* *julch* 18, 19,
50 green stout *Pseudoph* 18, 20,
51 *Platythorax* 18, 20,
52 *Musonia* near 18, 24, 25, 26, 30, 31,
53 *Agracrid* 18, 21, 30, 301
54 elong *Pseudoph* *nicar* 18, 20, 21,
55 small *Rhipipt* 18, 24, 26, 30,
56 *iorid* *Memobius* 18, 20, 27, 29,
57 near *Taranda* 18
58 large delic *Chorison* 18
59 *Ischnoptera* 18, 23, 26,
60 *Mumpack* *Acrid* 19
61 *Euborellia* 19,
62 *Monchea* 19
63 *Amblytropedia* 19, 24,
64 *Periplaneta* 19
65 *Dryllus* *assum* 19
66 blackish *Anaxipha* 19
67 *Duxia* 19, 26,
Rhipipt near 19
68 *Anapl* pale *navy* band 20
69 *Ischnopteryx* 20, 21, 22, 25, 30,
70 *Anax* dark *Ruee* 20
71 *Tamproblatta* 20, 22, 26(2) 31
72 *Hamotilla* 20, 24,
73 *Crocylus* 20
near *Arachnis* 20, 24,
Walking stick 21
Eudicous 21
75 large pale *Chorisonura* 21
76 *Problatta* *cylind* 22, 24, 25, 29,
Cocconatus 23, 26, 30, 301
79 *Schistocerca* 23, 26,
80 *Staurorhynchus* 23, 26, 31,
81 *Alloettix* 23
82 *Sudderia* 23, 26, 31,
84 *Elacochlora* 23, 24, 31(2)
85 *Pseudoplasma* 23, 26,
Epipia 23, 31,
87 *Pseudophyllodromia* 24
88 *Neoblattella* 24
90 *Europtera* 24, 26,
91 *Proscopid* 24, 25, 26,
92 *Ectococcus* *Buzara* 24, 26(2)
94 *Hemalosa* *afar* 24, 25,
95 *Tropinotus* 24, 26,

- 96 green muscivoid 24
 97 Heteronemid 24
 99 microcentrum 24
 100 Epilampra azteca 26
 Winkler etc 26, 30,
 102 Nyctibora 26
 103 Great Pseudophy 26
 104 Alcaemus 26
 106 Dixippus 26
 107 30tryp Pseudophy 26
 108 Colpocleptia 26
 109 near Eteorus 27, 30,
 Colaptesoblatia 27, 30,
 110 Phasmod winkler 27
 Phasmod winkler 27, 30,
 B germanica 27, 31
 113 New Neoblattella 27, 29,
 114 Neorakea 28
 115 Microcentrum 28
 116 Tettigid also 28
 117 Pulmatosiphia 29, 30,
 Anaplecta 29
 Green short fore arm 29
 118 Transp Molestoid 29
 119 Neolobophora 29
 120 Spined pseudophyllid 29
 Paraphonus opus 30
 121 Bicolored Corydill 30
 Mantoida 30
 122 Holocompsa 30
 Sm Phasmod 30
 123 Acanthops 31
 Ischn small 31
 Beautiful geyllid 31
 124 Microgylles 31
 125 Tactota 31
 126 Panotralacrae (20.17) 20
 127 Praos 20
 128 Staphnomantis 20
 129 short microcentr 31
 130 Symptoca 31
 131 Anantacera 31
- 132 blakereus 31
 133 Pupilla 31
 134 G. sigillatus 31
 135 Tetraneura 31
 Dendrobatta 31
 Apotony Pseudophy 31